GOVERNMENT OF INDIA
NON-CONVENTIONAL ENERGY SOURCES
LOK SABHA

UNSTARRED QUESTION NO:3762
ANSWERED ON:16.08.2001
GENERATION OF SOLAR ENERGY
VSM (RETD.) COL. CHOUDHARY

Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) the number of solar energy and wind energy plants set up in the country during the last three years indicating generating/ installing capacity, state-wise, especially in Rajasthan;

(b) the quantity of solar energy being generated in the country, state-wise;

(c) whether the Government have mooted some proposals to increase generation of power through solar energy in the near future;

(d) if so, the details thereof; and

(e) the total demand and availability of power generation in the country and estimated shortfall thereof?

Answer

MINISTER OF STATE FOR NON-CONVENTIONAL ENERGY SOURCES (INDEPENDENT CHARGE), (SHRI M. KANNAPPAN)

(a): State-wise break-up of solar photovoltaic systems and wind energy systems installed during the last three years is given in Annexure-I.

(b): Estimated energy generated from SPV systems as on 1st April 2001 is given in Annexure-II.

(c)& (d): It is proposed to set up 35,000 home lighting systems, 3000 street lights, 220 kWp stand alone power projects, 300 kWp grid connected power projects and 800 SPV pumping systems and to distribute 85,000 solar lanterns in the country during 2001-02.

(e): According to the statistics compiled by Central Electricity Authority, in July 2001, total requirement of electricity was estimated at 43,343 million units, while the availability was 40,474 million units and the shortfall was 2,869 million units.

State-wise installation of wind power capacity, SPV power capacity, SPV pumps, solar lanterns, home lighting systems and street lights during the last three years(1998-99 to 2000-01) as on 31.3.2001

Sl. No.	State/UT	Wind Power (MW)	SPV Power (kW)	SPV Pumps (Nos.)	Solar Photovoltaic SLS Nos.	HLS Nos.	SL Nos.
1	Andhra Pradesh	36.10	175.00	160	285	283	13208
2	Arunanchal Pradesh	~	~	~	~	393	2000
3	Assam	~	~	~	~	973	366
4	Bihar	~	~	23	50	550	17735
5	Goa	~	~	1	10	20	235
6	Gujarat	~	~	4	262	1837	20782
7	Haryana	~	~	57	288	3348	10749
8	Himachal Pradesh	~	~	~	571	4920	6324
9	Jammu & Kashmir	~	40.00	1	30	7411	2500
10	Karnataka	27.60	~	131	123	1004	2867
11	Kerala	~	25.00	369	65	1714	12637
12	Madhya Pradesh	10.30	100.00	39	110	84	1503
13	Maharashtra	184.30	75.00	35	259	295	2353
14	Manipur	~	~	11	~	50	500
15	Meghalaya	~	~	5	~	50	995
16	Mizoram	~	~	4	82	385	2288
17	Nagaland	~	~	~	~	135	95
18	Orissa	~	3.00	1	3497	1296	2508
19	Punjab	~	136.00	527	1200	2320	11495
20	Rajasthan	7.30	25.80	9	1106	16164	2910
21	Sikkim	~	~	~	~	54	50
22	Tamil Nadu	105.40	10.00	185	194	69	5226
23	Tripura	~	~	~	125	315	12029
24	Uttar Pradesh	~	125.00	109	238	27044	21896

25 West Bengal 0.50 240.00 1 181 11241 637
26 Andaman & Nicobar ~ ~ ~ 31 1 146
27 Chandigarh ~ ~ 2 ~ 150 875
28 Delhi ~ ~ 28 ~ ~ 939
29 Lakshwadeep ~ 200.00 ~ 90 ~ 5400
30 Pondicherry ~ ~ 4 ~ ~ 394
31 Others ~ ~ ~ ~ 6 10851

Total 371.50 800.00 1706 8797 82112 172493

MW= Mega Watt; kW=kilo watt;

Annexure-II

Annexure-II referred to in reply to Part (b) of Lok Sabha Unstarred Question No.3762 for 16.8.2001 regarding generation of solar energy

ESTIMATED ANNUAL ENERGY GENERATION AS ON 1.4.2001 FROM SPV SYSTEMS INSTALLED UPTO 31/3/2001

S.NO. STATE/UT Energy Generated in Million Units

1 ANDHRA PRADESH 2.96
2 AR.PRADESH 0.55
3 ASSAM 0.24
4 BIHAR 4.88
5 GOA 0.06
6 GUJARAT 3.29
7 HARYANA 3.04
8 HIMACHAL PRADESH 2.68
9 J & K 1.3
10 KARNATAKA 0.82
11 KERALA 4.75
12 MADHYA PRADESH 1.08
13 MAHARASHTRA 0.97
14 MANIPUR 0.42
15 MEGHALAYA 0.44
16 MIZORAM 0.53
17 NAGALAND 0.03
18 ORISSA 0.91
19 PUNJAB 1.81
20 RAJASTHAN 2.48
21 SIKKIM 0.05
22 TAMILNADU 1.82
23 TRIPURA 1.65
24 UTTAR PRADESH 11.93
25 WEST BENGAL 1.8
26 A & N Islands 0.31
27 CHANDIGARH 0.14
28 DNH 0
29 D&D 0
30 DELHI 0.73
31 LAKHSADWEEP 0.86
32 PONDICHERRY 0.08
33 BEL 0.56
34 BHEL 0.56
35 CEL 0.09

TOTAL 49.67